TOSHIBA

DVD VIDEO PLAYER

SD-550SY

OWNER'S MANUAL

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SAFETY PRECAUTIONS

- To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- This appliance is a Class I laser product. Direct exposure to beam may cause eyes injury.
- Do not open the cabinet by yourself and leave all servicing to qualified service personnel.
- Power requirement for this appliance is AC 110~240V, 50/60 Hz, please ensure the power supply is in the range before turning on.

OPERATION PRECAUTIONS

- Please use the original packing case and materials when transporting this DVD player, and pack the appliance in the original factory packing style for better protection.
- The temperature of the upper cover board and the rear panel of the player may be high after a long period of time of playing. This is not a problem but a normal phenomenon.
- When the player is not to be used, please remove the disc and turn the power off.
- Malfunction may be caused when the player is not used for too long, so please turn it on occasionally for better maintenance.
- Some kinds of discs may cause the appliance to hang, please restart the appliance when this occurs.
- Interval of restarting should be longer than 10 seconds, which can help to extend the life expectancy of the appliance.
- This appliance had better be unplugged after using each time for better protection.

LOCATION

- The moving pictures and played sound may be affected when the DVD player is placed close to TV set, radio or VCR, so please keep them further away.

ACQUIRING CLEAR PICTURES

- This DVD player is a device of high technology and high precision. The image quality may be impaired when the laser head or the disc driving parts are dirty or damaged.

CONDENSATION PRECAUTIONS

- Condensation may cause certain kinds of damage to the player. It may form because
  - The player is moved from cold to warm surroundings;
  - The player is placed inside a room where the heater is just on or exposed to the ventilation hole of an air-conditioner;
  - The player is moved out from an air-conditioned room to a place of high temperature and humidity in summer time.
  - The player is being used in a surrounding of high humidity.
- Do not use the player where condensation may be form easily, otherwise damage may be caused to the disc and inner parts of the player. Please take the disc out, plug the power cord into a wall outlet and turn the player on. The moisture will disappear when the temperature rises two or three hours later.

CLEANING PRECAUTIONS

- Use a soft and dry cloth for cleaning.
- For the stains that cannot be removed easily, apply some diluted neutral detergent to a cloth, wring the cloth dry and wipe the stains away, then use a dry cloth to clean. Do not use any solvents such as thinner or benzine; otherwise the surface of the player may be damaged.
- When using duster cloth with chemical substance for cleaning, please refer to the product`s instructions.

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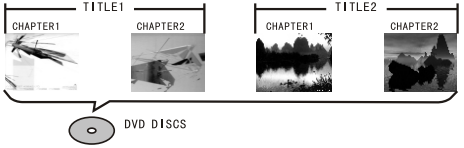
Differences in disc composition

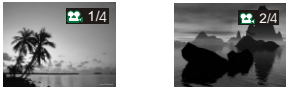
DVD

All discs are divided up into smaller, more manageable sections so that you can find specific content more easily. DVD discs are divided into one or more titles. Each title may be further divided into several chapters. Occasionally, a chapter may contain index points, effectively dividing the chapter up into several parts, too.



MULTI-ANGLE

You can view scenes from different camera angles when watching movies or other media with multiple angle playback available.



MULTIPLE LANGUAGES

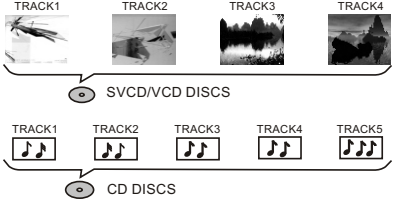
You can select the expected language on when watching movies or discs that have multiple languages and/or audio soundtracks recorded on them.

MULTI-LANGUAGE SUBTITLES

You can select your desired subtitle language or turn subtitles off when watching movies or discs that have multi-language subtitles recorded on them.

SVCD/VCD/CD

SVCD/VCD/CD are divided into a number of tracks. A track may contain a number of index points occasionally, which effectively divides the track up into several parts.

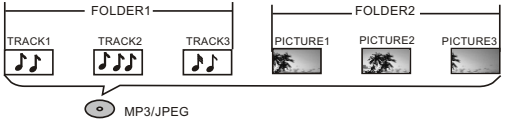


This DVD video player supports VIDEO CDs equipped with the PBC(Version 2.0) function. (PBC is the abbreviation of Playback Control.) You can enjoy two playback variations depending on types of discs.

- VIDEO CD not equipped with PBC function(Version 1.1)
  Sound and movie can be played on this DVD video player in the same way as audio CD.
- VIDEO CD equipped with PBC function(Version 2.0)
  In addition to operation of a VIDEO CD not equipped with the PBC function, you can enjoy playback of interactive software by using the menu displayed on the TV screen.

MP3/JPEG

MP3 is a compressed audio file format. Files are recognized by their file extension ".mp3" or ".MP3". JPEG is a compressed image file format. Files are recognized by their file extension ".jpg" or ".JPG".



Note:It can read up to a maximum of 256 folders or 900 files.

About this owner's manual

This owner's manual explains the basic instructions of this DVD video player. Some DVD video discs are produced in a manner that allows specific or limited operation during playback. As such, the DVD video player may not respond to all operating commands. This is not a defect in the DVD video player.
"INVALID KEY" may appear on the TV screen during operation.
"INVALID KEY" means that the operation is not permitted by the DVD video player or the disc.

Notes on region numbers

The region number of this DVD video player is 4 . If region numbers, which stand for their playable area, are printed on your DVD video disc and you do not find or , disc playback will not be allowed by the player.(In this case, the DVD video player will display a message on-screen.) Some DVDs that have no region code label may still be subject to area restrictions and therefore not playable.

Notes on copyright

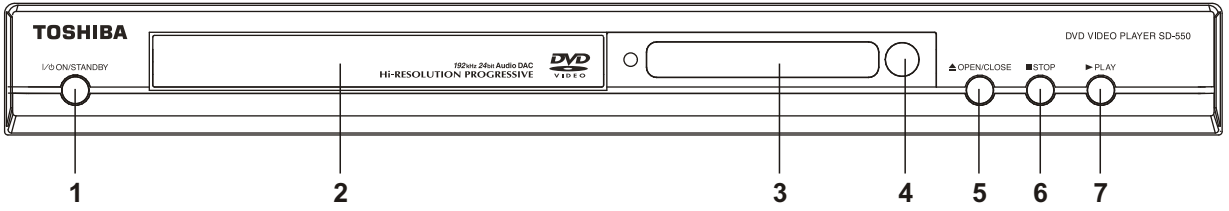
Unauthorized copying, broadcasting, public performance and lending of discs are prohibited. This product incorperates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

INTRODUCTION OF PRODUCT FUNCTIONS

This appliance supports full functional DVD playback modes including 8 languages, 32 subtitles and 9 angles. The appliance can play DVD, super VCD, VCD, DVCD, CD and CD-R discs. In addition, MP3 and Picture CD are also playable.
The player has the following features:

- 10-bit/108Mhz video D/A converter with up to 500-line horizontal resolution.
- 24-bit/192KHz audio D/A converter with high-quality DVD audio output.
- Coaxial digital audio out jack, standard 2-channel audio out jack.
- Standard video out (CVBS) and component video out (Y, PB, PR) output.
- 16:9 and 4:3 TV screen aspect ratio support.
- Playback functions including Repeat, Fast Forward/Reverse, Zoom In/Out etc.
- Parental Lock Level control system.
- High-reliability power supply switch.
- Screen saver program for screen protection.
- Auto STANDBY function for automatic electricity saving.
- Super search function, supporting various search modes.

FRONT PANEL



1. I/⏻ ON/STANDBY button
   Press to toggle the player between ON and OFF.

2. Disc tray
   When loading a disc, place disc in the disc tray with the label side facing up.

3. Display window
   Displays current disc information.

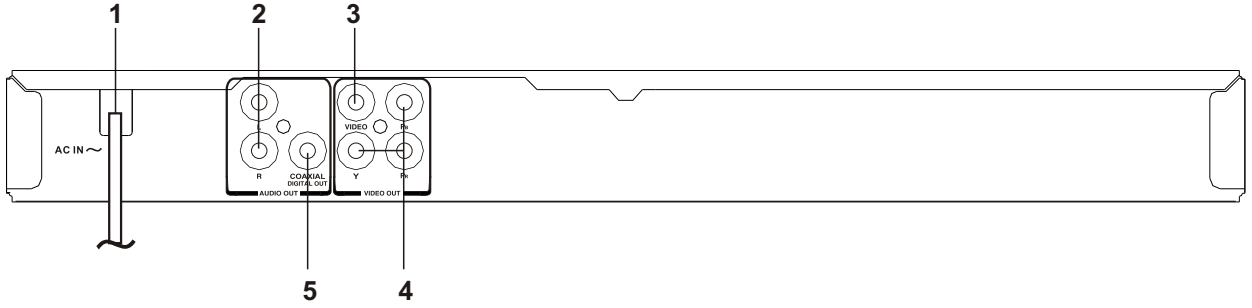
4. Remote sensor
   Point the remote control toward the remote sensor to operate the player.

5. ⏏ (OPEN/CLOSE) button
   Press to open and close the disc tray.

6. ■ (STOP) button
   During DVD playback, press once to stop playback. The unit records the stopped point, depending on the disc. Press PLAY button to resume playback from the stopped point. If you press this button again ,the unit will clear the stopped point causes the disc to return to the beginning of the disc if playback starts again.

7. ► (PLAY) button
   Press to play the disc.

REAR PANEL



1. **AC IN** ~ AC IN power cord connection terminal
   Use to connect the power cord to the wall outlet.

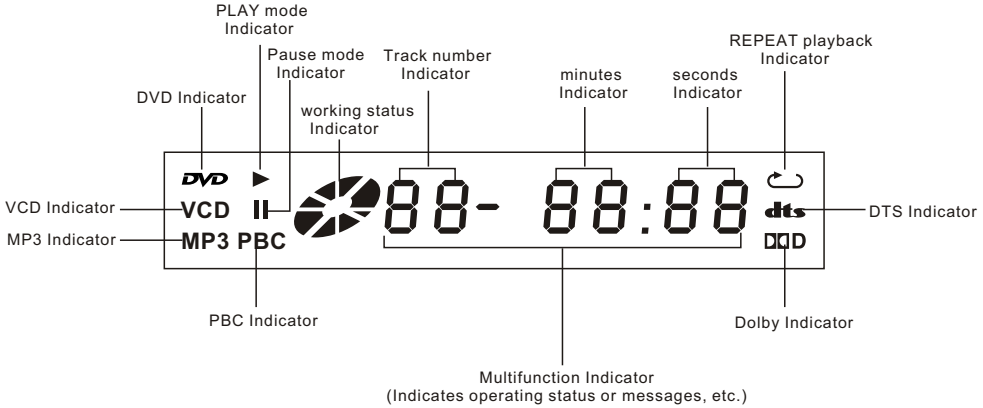
2. 2CH AUDIO OUT jack
   Use to output decoded 2ch audio to multi-channel receiver or amplifier. FL and FR jacks are connected to the stereo input of a pro logic of stereo 2 channel amplifier or receiver.

3. VIDEO(CVBS) jack
   Connect to the video input on a TV, monitor, AV amplifier or receiver with video input capability.

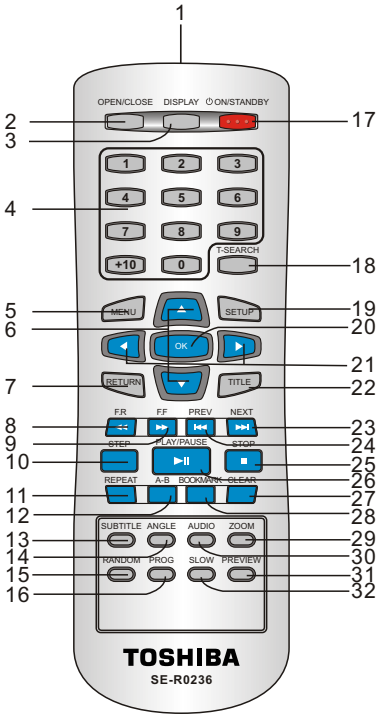
4. COMPONENT VIDEO OUT jacks
   If your TV or monitor or other similar devices has component video inputs, you can produce a higher quality picture on it by connecting its component video cable to the YPBPR jack on this unit.

5. COAXIAL DIGITAL AUDIO OUT jack
   Use to output digital audio recorded on discs by connecting to the coaxial digital audio input on an AV amplifier or receiver with digital audio input capability, but first you need to change the setting to digital audio output on the SETUP MENU.

DISPLAY WINDOW



REMOTE CONTROL



1. REMOTE SIGNAL EMITTER
2. OPEN/CLOSE
3. DISPLAY
4. NUMBER BUTTONS
5. MENU
6. UP/DOWN
7. RETURN
8. FAST REVERSE
9. FAST FORWARD
10. STEP
11. REPEAT
12. REPEAT A-B
13. SUBTITLE
14. ANGLE
15. RANDOM
16. PROG
17. ON/STANDBY
18. T-SEARCH
19. SETUP
20. OK
21. LEFT/RIGHT
22. TITLE
23. NEXT
24. PREV
25. STOP
26. PLAY/PAUSE
27. CLEAR
28. BOOKMARK
29. ZOOM
30. AUDIO
31. PREVIEW
32. SLOW

1. REMOTE SIGNAL EMITTER

Point the remote control to the remote sensor on the front panel.

Effective distance: less than 6 meters.

Effective angle: (H/V) ±30°

2. OPEN/CLOSE

Press this button to open/close the disc tray.

3. DISPLAY

Press to display the current disc information including title information, chapter information, time information, etc.

4. NUMBER BUTTONS

Press number buttons to play relevant chapter/track.

5. MENU

Press to display the DVD root menu on the screen or changes the status of PBC functionality for VCD(PBC ON or PBC OFF).

For DVD disc, select the item with the cursor buttons then press OK to start playback.

6, UP/DOWN(▲/▼)

Press to move the cursor to the items or settings.

7. RETURN

Press this button to return to the menu. This function is only for VCD and DVD discs.

8. FAST REVERSE

Press this button to toggle between the following modes: BACKWARD×2->BACKWARD×4->BACKWARD×8->BACKWARD×20->PLAY. For DVD discs, press this button will fast reverse to the beginning of previous chapter/title to start playback. For SVCD and VCD discs, if the PBC is ON, press this button will fast reverse to the beginning of current track to start playback.

9. FAST FORWARD

Press this button to toggle between 4 different playback speeds.

10. STEP

Each pressing of the button will advance the picture one frame ahead. Press the PLAY/PAUSE button to resume normal playback.

11. REPEAT

For DVD discs, press this button to toggle between OFF, CHAPTER, TITLE and REP ALL modes. For other discs, press to toggle between OFF, REP 1, REP DIR(JPEG/MP3 only) and REP ALL modes.

Remarks: Repeat can not function when you play a PBC-featured Video-CD/SVCD while the PBC is on.

CHAPTER: Repeats the chapters within the current title.

TITLE: Repeats the current title.

REP ALL: Repeats the entire disc.

REP 1: Repeats the current track/file.

REP DIR: repeats the current folder.

OFF: Resumes normal playback.

12. A-B

"A-B" means that repeat playback is from point A to B. Press this button to access the setting of the starting point A.Press this button again to access the end point B. Press this button the third time to cancel the A-B repeat.

13. SUBTITLE

For DVD discs, press this button to change the language of the subtitle.

To turn off the subtitle, press SUBTITLE several times until "OFF" appears on the screen.

Note: the numbers of languages vary with the DVD discs.

14. ANGLE

Press for the first time to play the current camera angle. For DVD discs that contains scenes recorded in multiple camera angles, press to switch the camera angle during playback.

15. RANDOM PLAYBACK

Press this button to toggle between RANDOM ON and RANDOM OFF mode.
Remarks: Random playback cannot function when you play a PBC-featured Video-CD/SVCD while the PBC is on.

16.PROG(Program Play)

Press this button,the OSD will show as below.

PROG For VCD:

1 - - - -	5 - - - -	9 - - - -	13 - - - -
2 - - - -	6 - - - -	10 - - - -	14 - - - -
3 - - - -	7 - - - -	11 - - - -	15 - - - -
4 - - - -	8 - - - -	12 - - - -	16 - - - -

PLAY CLEAR

PROG For DVD:

T C	T C	T C	T C
1 - - : - -	5 - - : - -	9 - - : - -	13 - - : - -
2 - - : - -	6 - - : - -	10 - - : - -	14 - - : - -
3 - - : - -	7 - - : - -	11 - - : - -	15 - - : - -
4 - - : - -	8 - - : - -	12 - - : - -	16 - - : - -

PLAY CLEAR

You can use the cursor buttons(◄/► ▲/▼) and number buttons to input your desired title/chapter/track in the blank.When you finished ,you can move the cursor to the PLAY,then press the OK button or directly press PLAY button to start the program playback.Press the PROG button twice to cancel the program playback.

17. ON/STANDBY

Press this button to turn on or turn off this unit.

18. T-SEARCH

This function allows the user to start playback from a designated point. Press the SEARCH button to display the search menu on the TV screen, then use the cursor buttons(◄/►) and the NUMBER buttons to input the desired title/chapter/track number or the specific time. Press OK to confirm and playback will start from the designated point. This function is not available for MP3 discs.

19. SETUP

Press this button to access the setup menu.

20. OK

Press this button to confirm current operation.

21. LEFT/RIGHT(◄/►)

Press to move the cursor to the items or settings.

22. TITLE

Press TITLE button to access the title menu of the disc. Select the item with the cursor buttons(◄/► ▲/▼) then press OK to start playback.
Remarks: Only for DVD discs. Depending on the DVD discs, you may not be able to select the title.

23. NEXT

Press this button to skip to next title/chapter/track. For SVCD and VCD discs, when the PBC is OFF and the playing track is the last track, press this button will stop the playback.

24. PREVIOUS

Press this button to go to previous title/chapter/track. For SVCD and VCD discs, when the PBC is OFF and the playing track is the first track, press this button will stop the playback; and if the playback is stopped, press this button will take no effects.

25. STOP

Press once to stop and then press PLAY/PAUSE button to resume playback from the stop point; press this button twice causes the disc to return to the beginning of the disc if playback starts again.

26. PLAY/PAUSE

Press this button to toggle between the PLAY and PAUSE mode.

27. CLEAR

Using this button, you can delete the mistyped entries or cancel some functions.

28. BOOKMARK

During playback,press the BOOKMARK button. The OSD will show MARK ----- TRK 1 00:02:22 . Press the OK button to mark the desired scene on any of the five positions using the ◄/► cursor buttons. Press

the PLAY/PAUSE button on any of the bookmark to playback. Press the CLEAR button to delete the marked scene. To exit the bookmark display, press BOOKMARK again.

29. ZOOM

Press this button to zoom in or zoom out the current picture. There are three zooming modes. Press cursor buttons(◄/► ▲/▼)to view a different part of the zoom in image. You may move the image from the centre position to UP, DOWN, LEFT and RIGHT direction. To resume normal playback, press ZOOM button repeatedly until the "ZOOM:OFF" is displayed.

30. AUDIO

For DVD discs, press this button to toggle between different audio modes. The selected audio mode will be displayed on the screen. For stereo discs, press to switch the audio channel output.

Remarks: For bilingual edition VCD discs, press the AUDIO button to select your desired language.

31. PREVIEW

Press this button to view nine frames from current track during VCD playback. Or press this button in stop mode to view nine frames from the whole disc. Select the desired frame/track by using number buttons and then press PLAY/PAUSE button to start playing.

For CD-DA(Audio CD), press this button for INTRO playback. The beginning of each track will be played back for about 15 seconds.

32. SLOW(Slowly forward)

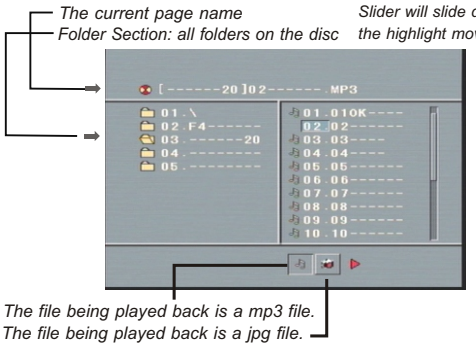
Press this button to toggle between the following modes:SF 1/2 →SF 1/3 → SF 1/4 →SF 1/5→SF 1/6 →SF 1/7 →PLAY.

MP3/JPEG PLAYBACK

Load a MP3/JPEG disc, the appliance will automatically search the folders on the disc, and automatically enter the first MP3 folder (for folders that contain files in different formats, the first folder that contains files in the same format will be entered) and playback the first MP3 file in that folder .

Use cursor buttons(◄/►) to move to the JPEG file type. Select the desired folder and file using the cursor buttons(◄/► ▲/▼), then press PLAY/PAUSE to playback in slide show mode. (See page 17.)

Notes: While playing JPEG picture, you cannot hear the MP3 music.
Large size JPEG files will take a longer time to be displayed.

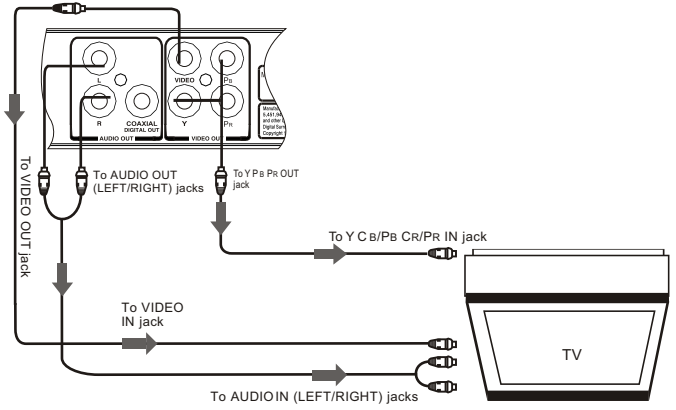


Function Switch Section: *displays the file type of the file being played back. Use cursor buttons(◄/►) to switch to a desired file type(MP3/JPEG) to display the folder/file list..*

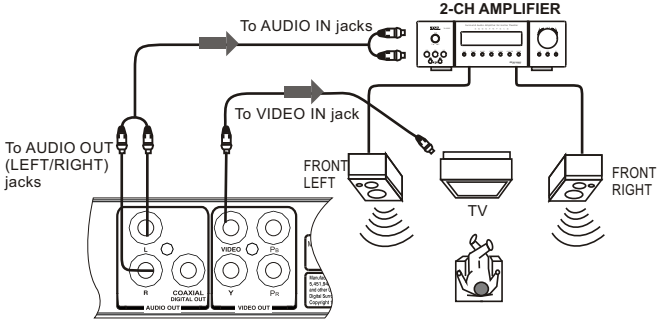
When playing a picture, use cursor buttons(◄/► ▲/▼) to flip or rotate the picture:

▲ button: each pressing flips the picture vertically.
▼ button: each pressing flips the picture horizontally.
◄ button: each pressing rotates picture by 90 degrees anticlockwise.
► button: each pressing rotates picture by 90 degrees clockwise.

CONNECTING TO A TV


To VIDEO OUT jack
To AUDIO OUT (LEFT/RIGHT) jacks
To Y PB PR OUT jack
To Y CB/PB CR/PR IN jack
To VIDEO IN jack
TV
To AUDIO IN (LEFT/RIGHT) jacks

CONNECTING TO A 2CH AMPLIFIER

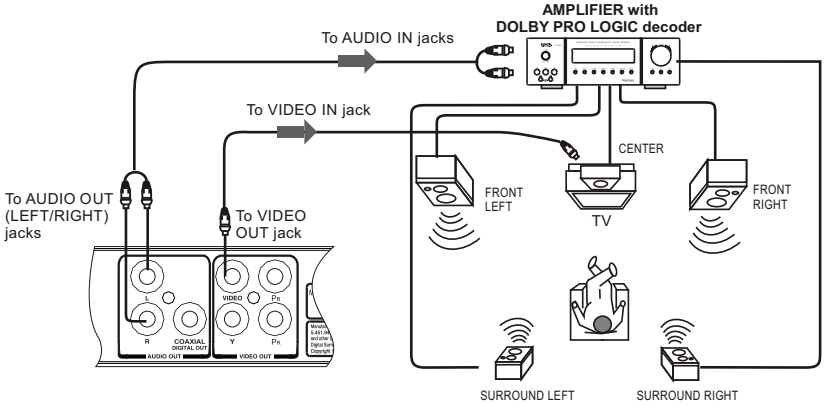


Notes:

- If the TV has COMPONENT VIDEO IN jacks (Y, CB/PB, CR/PR), connects them to the corresponding Y PB PR OUT jacks.
- If you'd like to output the audio to the TV, please connect the Left/Right channel output jack on the player to the corresponding channel input jack on the TV by matching the colour of the plugs with the colour of the jacks (red for right channel and white for left).

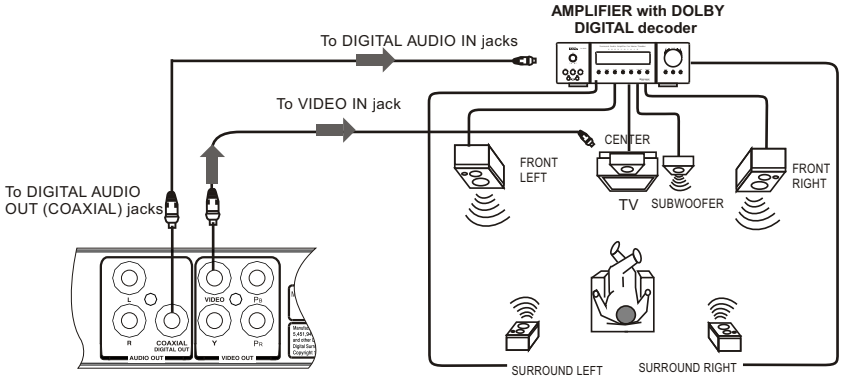
You can enjoy the stereo audio effect by connecting the player to a two-channel amplifier-and-speakers system. Please ensure the audio output of the player is set to STEREO.

CONNECTING TO AN AMPLIFIER WITH DOLBY PRO LOGIC DECODER



You can enjoy the Dolby Surround audio effect by connecting the player to an amplifier-and-speakers system with Dolby Pro Logic decoder. Please ensure the audio of the playback disc is set to 2 CH sound.

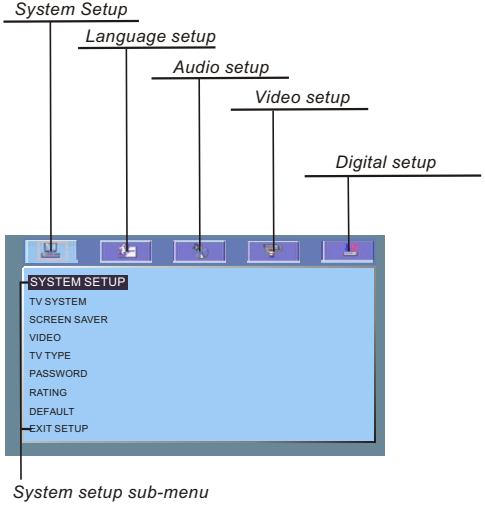
CONNECTING TO AN AMPLIFIER WITH DOLBY DIGITAL DECODER



You can enjoy the completely-reproduced 5.1-channel Digital Theatre Systems audio effect by connecting the player to an amplifier-and-speakers system with Dolby Digital decoder via a coaxial cable. Please ensure the audio setup of the player is set to BITSTREAM.

[SETUP MENU]

To achieve the best effect of the DVD player, you may need to perform initial setting according to the content of the disc and peripheral equipment. Details of all the adjustable functions will be described later in this chapter, and this section introduce the SETUP MENU.



1. Press the SETUP button to display the main menu on the TV screen.
   When the setup menu is shown, the playback will be automatically paused.
- Press cursor buttons (◄/►) to select the desired setup, then press ▼ cursor button.
- Press cursor buttons (▲/▼) to select the sub menu, then press OK.
- Press cursor buttons (▲/▼) to select the desired option, then press the OK button to save the new setting into memory. The setting will be effective when you switch on the appliance again.
- Press the SETUP button again to remove the setup menu from the screen.

[SYSTEM SETUP]

TV SYSTEM

According to the colour system of the TV the appliance is connected to. Select the corresponding TV system for the appliance including AUTO, NTSC, and PAL.
NTSC: Select if your TV system is NTSC.
PAL: Select if your TV system is PAL.
AUTO: The DVD video player automatically identifies PAL or NTSC video system of a disc. Connect a multisystem TV(PAL/NTSC compatible) to view a picture. A playback picture may be distorted when detected a signal change between PAL and NTSC on the disc. For the case of Progressive mode, your multisystem TV must be able to support both 525p and 625p.

SCREEN SAVER

ON: When this unit is in idle status, such as disc playback is stopped or paused, or the unit is waiting for input from the user, and this idle status lasts for 5 minutes, a moving screen saver logo will appear on the screen for protection.
OFF: Turn off the TV screen protection function.

VIDEO

Select the corresponding video output mode according to the respective video outputs that are used to connect the appliance to the TV set:
P-SCAN YPBPR: Select if you connect the DVD player to your TV which has component video inputs that supports progressive scan.
INTERLACE-YPBPR: Select if you connect the DVD player to your TV which has component video inputs that supports the interlace mode.
Note: Select " P-SCAN YPBPR " or " INTERLACE-YPBPR " if you connect the DVD player to the TV via VIDEO output.

TV TYPE

16:9 (wide screen): select this when connecting to a wide-screen TV set.
4:3LB (letterbox): select this when connecting to a conventional TV set. When playing wide-screen picture, a black bar will be placed on top and bottom portion of the TV screen.
4:3PS (pan & scan): select this when connecting to a conventional TV set. When playing wide-screen picture, the left and right side of the picture will be cropped to suit the screen.
The default setting is 4:3PS(pan & scan).
Remarks:
The playback effect is related to the disc content, so some discs may not be played according to your setting.
For 4:3 movie disc, the aspect ratio will be always 4:3 regardless of the setting.
The screen aspect ratio should be related to the TV screen used.

PASSWORD

The default setting is password locked and the RATING setting is not available. If the RATING setting needs to be made,you should enter the initial password: 1234 and then press OK. If you need to change the password, first enter the old password to unlock the password, and then enter the new one. (The effective password has 4 digits.)
Remaks: The disc tray must be opened to activate the password or RATING settings.

RATING

When playing a disc with RATING information, you can select different RATING settings from 1 to 8 according to the disc information and your intention.
The limitation will be more severe as the rating level is lower. If the DVD disc has been designed to temporarily cancel the Rating level, the " PASSWORD " screen will appear. Input the 4-digit password as you have set then followed by OK button and playback will start.

Remarks:
The discs must contain the RATING information.
The RATING setting will take no effects if the password is unlocked.
The RATING setting can not be changed until the password is unlocked.

DEFAULT

Select RESTORE to resume the default setting.

[LANGUAGE SETUP]

Remarks: The disc tray must be opened to change the audio language or subtitle language.

OSD LANGUAGE

Choose an On-Screen Display language including English and Russian.

AUDIO LANG

Choose an audio language including CHINESE, ENGLISH, RUSSIAN, FRENCH, SPANISH, PORTUGUESE, LATIN, GERMAN.

SUBTITLE LANG

Choose a subtitle language including CHINESE, ENGLISH, RUSSIAN, FRENCH, SPANISH, PORTUGUESE, GERMAN and OFF.

MENU LANG

Choose a menu language including CHINESE, ENGLISH, RUSSIAN, FRENCH, SPANISH, PORTUGUESE, GERMAN and LATIN.
Remarks:
If the DVD disc does not contain the language you selected, the appliance will automatically select the default language of the disc.

[AUDIO SETUP]

DIG.AUDIO OUT

Select an audio output mode:
OFF: output analog audio, no digital audio will be output from the coaxial out jack .
BITSTREAM: Select this when the DVD player is connected to the amplifier through the coaxial out jack. When playing a disc that is recorded in Dolby Digital, DTS and MPEG audio system, the DVD player will output the original digital signal from the coaxial out jack. The amplifier should has Dolby Digital decoding function.
PCM: Select this when the DVD player is connected to a two-channel stereo digital amplifier. When playing a disc that is recorded in Dolby Digital, DTS and MPEG audio system, the DVD player will convert the digital audio into two-channel PCM format and output through the coaxial out jack.

[VIDEO SETUP]

BRIGHTNESS

Use cursor buttons (▲/▼) to move the slider to adjust the brightness of the video output.

CONTRAST

Use cursor buttons (▲/▼) to move the slider to adjust the contrast of the video output.

HUE

Use cursor buttons (▲/▼) to move the slider to adjust the hue of the video output.

SATURATION

Use cursor buttons (▲/▼) to move the slider to adjust the saturation of the video output.

SHARPNESS

Use cursor buttons (▲/▼) to move the slider to adjust the sharpness of the video output.

TIME

Use cursor buttons (▲/▼) to set the JPEG interval for the slide show playback.
3 SEC: plays back images in the form of a slide show at 3 seconds interval.
5 SEC: plays back images in the form of a slide show at 5 seconds interval.
10 SEC: plays back images in the form of a slide show at 10 seconds interval.

[DIGITAL SETUP]

OP MODE

LINE OUT: This mode will output a bigger sound, which suits the daytime.
RF REMOD: The output will be linear compressed and has a smaller volume, which suits the quiet night.

DYNAMIC RANGE

In Dolby Digital mode, dynamic range compression can reduce sudden volume changes by letting you adjust the difference between soft and loud sounds. With this function, you can enjoy the surround sound effect while viewing discs in mid-night without disturbing others.

Ratio of dynamic range compression includes FULL, 6/8, 4/8, 2/8 and OFF.

DUAL MONO

Different setting can be applied to the left and right channel when audio output is only two-channel.
STEREO: output left channel audio to left channel and right to right channel.
MONO-L: output left channel audio to both channels.
MONO-R: output right channel audio to both channels.
MIX MONO: mixed left and right channel audio and output to both channels.

Note: only for discs recorded in Dolby MONO format.

[PLAYABLE DISC TYPES]

Playable discs types and marks	Diameter / Playable sides	Disc features and playback time
DVD video	DVD video	Digital audio, digital video MPEG2, moving pictures + sound
	12cm single-sided 1 layer	135 min.
	2 layer	270 min.
	12cm double-sided 1 layer	270 min.
	2 layer	540 min.
	DVD video	Digital audio, digital video MPEG2, moving pictures + sound
	8cm single-sided 1 layer	45 min.
	2 layer	70 min.
	8cm double-sided 1 layer	83 min.
	2 layer	152 min.
Super VCD	Super VCD	Digital audio, digital video, MPEG2 1/2,2/3, moving pictures + sound
	12cm single-sided	40 min.
	8cm single-sided	10 min.
VCD	VCD	Digital audio, digital video, MPEG1, moving pictures + sound
	12cm single-sided	74 min.
	8cm single-sided	20 min.
CD	CD	Compressed digital audio
	12cm single-sided	74 min.
	8cm single-sided	20 min.
MP3	MP3 discs	Compressed digital audio
	12cm single-sided	Up to 170 songs, 12 hr.

All the disc type mark can be found on disc labels or disc jackets.
CD-R and CD-RW discs recorded in CD Audio or Video CD format, or with MP3 audio files, are also playable.

Caution!

- CD-R/RW discs recorded using a personal computer may not play if the disc is damaged or dirty, or if there is dirt or condensation on the player's lens.
- If you record a disc using a personal computer, there are cases in which it may not play because of the settings of the application software used to create the disc. (Check with the software publisher for more detailed information.)

[SPECIFICATIONS]

Environment:	working temperature : 0 ~ 40℃ working humidity : 10% ~ 80%
Video:	Colour system : PAL/NTSC DVD horizontal resolution : 500 line SVCD horizontal resolution : 350 line VCD horizontal resolution : 250 line
Audio:	Signal to noise : ≥ 90 dB Frequency response : 20 Hz ~ 20 KHz ±1 dB Distortion and noise : ≤ -70dB Dynamic range : > 80dB Crosstalk : ≥ 80dB
Output:	Video output level :1.0± 0.2 Vp-p Audio basic output level :$1.8V^{+0.2V}_{-1.0V}$
Remote-control effective distance:	Less than 6m; angle : (horizontal/vertical) ± 30℃
Power requirement:	AC 110-240V 50Hz/60Hz
Power consumption:	15W
Dimensions:	360mmx286mmx43mm
Weight:	approximately 1.8kg

The specifications and design of this product are subject to change without notice.

[TROUBLESHOOTING]

Problem	Possible cause	Solution
No power	AC Power socket is not plugged properly.	Connect the plug to the socket firmly and make sure the power outlet has power.
Playback is not possible	The disc is not compatible or seriously damaged.	Only use playable discs.
	The disc is loaded upside down.	Make sure the label side is facing up.
	The disc is above the Parental Lock Level.	Turn off the Parental Control.
	Condensation inside the player.	Turn on the player to warm up for about 2 to 3 hours.
No picture	The video cable is not connected properly.	Connect the video cable properly.
	The player is in STANDBY mode.	Press ON/STANDBY button again.
	The TV is not set up properly.	Turn on the TV and select the video input connected to the DVD player.
Distorted picture or black-and-white picture	Incompatible TV system.	Select the correct TV system.
Picture quality is poor	The disc is not clean or scratched.	Clean the disc or replace the disc.
No sound	The audio cable is not connected properly.	Connect the audio cable properly.
Buttons on front panel or remote control do not work	Such operation is not supported by the current disc or the current setting of the player.	Change the setting or perform a proper operation according to this manual.
Remote control does not work	Batteries in the remote control are flat or inserted the wrong way round.	Replace the batteries or insert them correctly.
	Too far from the player, or the angle with the remote sensor is too wide.	Be sure to operate the remote control from a location within its operating range.
	Obstacles between the remote sensor and the remote control	Remove the obstacles.

[ACCESSORIES]

- Remote control ----------1
- Audio / Video cable----------3
- AAA dry cell batteries----------2
- User's manual ----------1